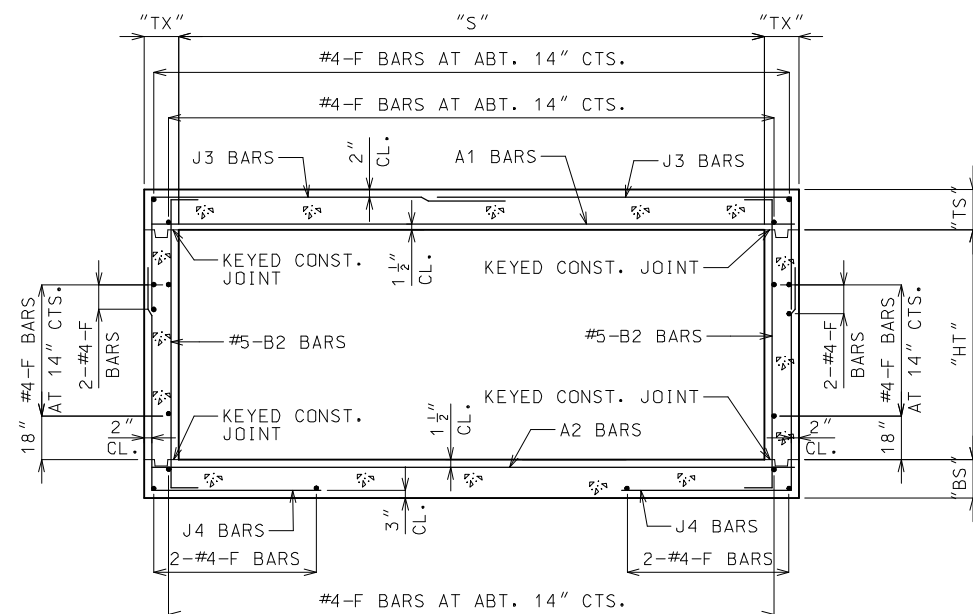
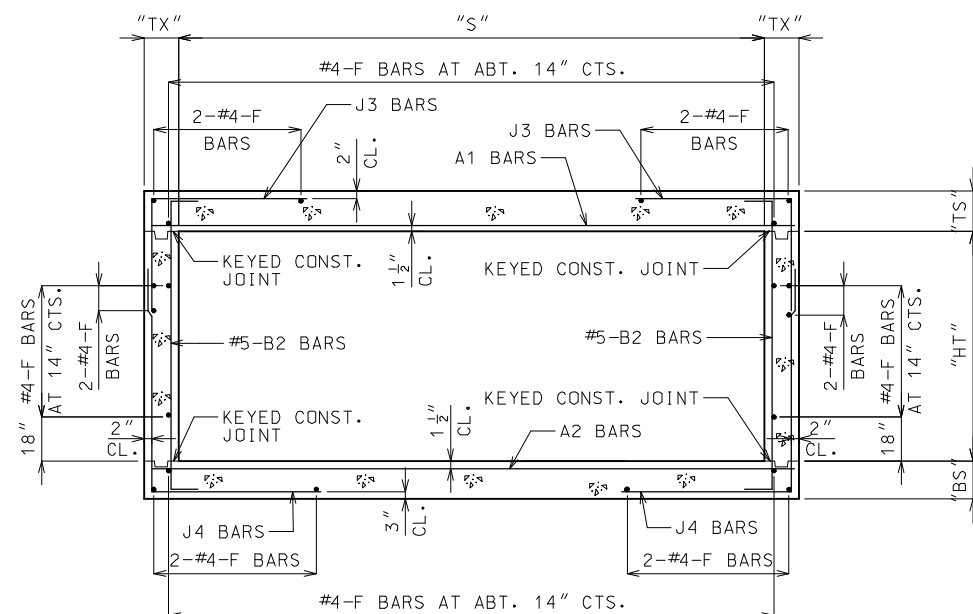


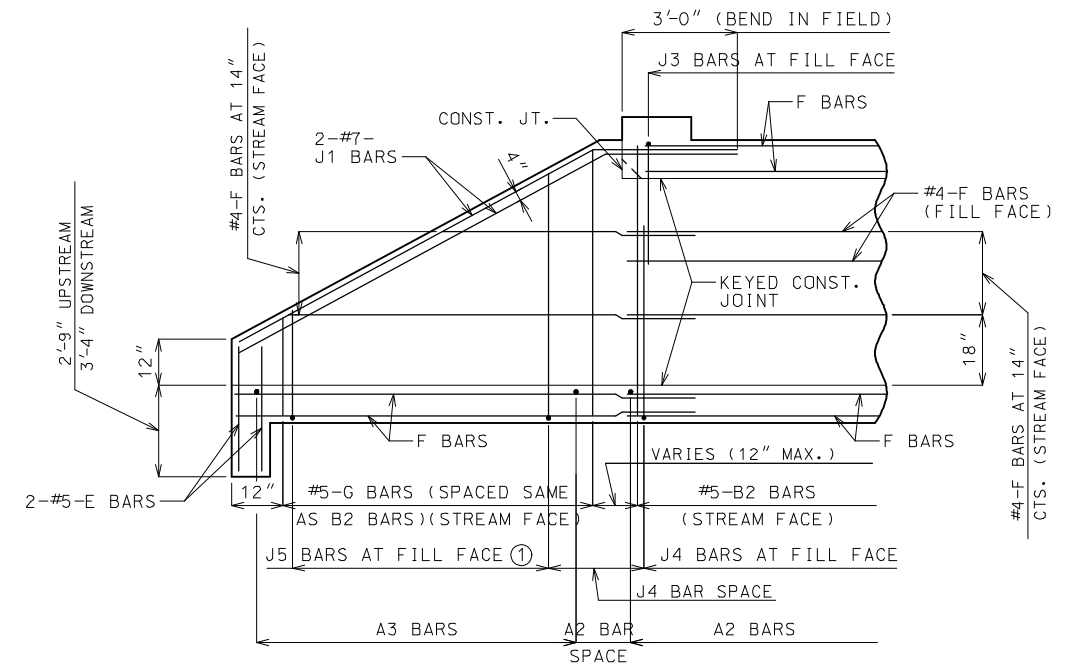
SECTION THRU WINGS (UPSTREAM SHOWN)



SECTION THRU BOX (DESIGN FILLS 2'-0" OR LESS)



SECTION THRU BOX (DESIGN FILLS OVER 2'-0")



ELEVATION OF WING (UPSTREAM SHOWN)

NOTE: CONSTRUCTION JOINT KEY OMITTED FOR CLARITY.

GENERAL NOTES:

ALL DIMENSIONS SHOWN ARE IN INCH UNLESS OTHERWISE NOTED.

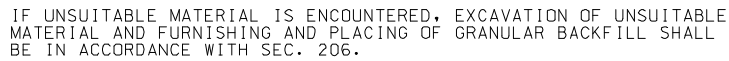
J1 BARS MAY BE BENT IN FIELD OR SHOP.

MINIMUM CLEARANCE TO REINFORCING STEEL SHALL BE 1-1/2" UNLESS OTHERWISE SHOWN.

FOR DIMENSIONS AND SIZE AND SPACING OF REINFORCING STEEL, SEE STANDARD SHEET 703.15.

① FOR DETAILS OF REINFORCEMENT IN WINGS, SEE STANDARD SHEET 703.37.

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION			
CONCRETE SINGLE BOX STRUCTURE FLARED WINGS (SQUARE)			
DATE: _____	EFFECTIVE: 09-01-2006	703.11G	2/3



GENERAL DATA TABLE	
VARIABLE	DIMENSION (in.)
ALPHA	SEE EQUATIONS
BETA	SEE EQUATIONS
"B"	SEE EQUATIONS
"C"	SEE EQUATIONS
"D"	$R + M + N + 20''$
"E"	$G + 23''$
"F"	$S + 2TX$
"G"	$2V$
"L"	$2A + B + C + D + E$
"M"	$N(\cos 20^\circ)$
"N"	$3'' + TX(\tan 10^\circ)$
"P"	$2V(\sec 20^\circ)$
"Q"	$TX(\cos 20^\circ)$
"R"	$P(\cos 20^\circ)$
"U"	$(R + M)(\tan 20^\circ)$
"V"	$HT + TS - 12''$
"Y"	$TX(\sin 20^\circ)$
"KK"	$S/2 + U$

NOTE:
WHEN ALTERNATE PRECAST BOX SECTIONS ARE USED, THE MINIMUM BARREL LENGTH MEASURED ALONG THE SHORTEST WALL FROM THE FIRST JOINT TO THE OUTSIDE OF THE HEADWALL SHALL BE 3'-2". REINFORCEMENT AND DIMENSIONS FOR THE WINGS AND HEADWALLS SHALL BE IN ACCORDANCE WITH MISSOURI STANDARD PLANS DRAWINGS.



CROSS-SLOPE: SLOPE OF EACH PART OF THE ROADWAY INCLUDING ROADWAY CROWN, SHOULDER SLOPE, AND/OR SUPERELEVATION. SEE DESIGN ROADWAY CROSS SECTION FOR LANE AND SHOULDER WIDTHS AND SLOPES.

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION			
	CONCRETE SINGLE BOX STRUCTURE FLARED WINGS (SQUARE)		
DATE: _____	EFFECTIVE: 09-01-2006	703.11G	<div style="display: flex; align-items: center; justify-content: center;"> <div style="border-right: 1px solid black; padding-right: 5px;">3</div> <div style="margin: 0 5px;">/</div> <div style="padding-left: 5px;">3</div> </div>